```
SEQ THISE LISTING
<1: - Owen, Donald R.</pre>
Club - SHORT BIOACTIVE PEPTIDES
-11: HELK027
1.
-1141
4:16% - 165
.178 - FatentIn Ver. 2.1
.1105 1
App 1 1 - 23
 <211 + PFT
 KINTA SYNTHETIC
 Phe Ala Leu Ala Leu Lys Ala Leu Lys Lys Ala Leu Lys Lys Leu Lys
                                  10
 ì
 Lys Ala Leu Lys Lys Ala Leu
 <210 - 2
 <211 - 23
 KARL - PFT
 .213 . SYNTHETIC
  < 320S
 ..... MOD_RES
  .<u>2228 (23)</u>
  <!!! AMIDATION</pre>
  The Ala Leu Ala Leu Lys Ala Leu Lys Lys Ala Leu Lys Lys Leu Lys
  <400> 2
                       10
  Lys Ala Leu Lys Lys Ala Leu
                20
  ....
  . 211)- 38
  ..1.. : RT
  . :: . YNTHETIC
   Met Fro Lys Trp Lys Val Phe Lys Lys Ile Glu Lys Val Gly Arg Asn
   lie Arg Asn Gly Ile Val Lys Ala Gly Pro Ala Ile Ala Val Leu Gly
                                     25
                20
   HOU03:711794.2
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```
Glu Ala Lys Ala Leu Gly
 35
<:210 > 4
-1111 - 13
-211 - PET
111 : YNTHETIC
-1234--
%DD1 + MOD_RES
%DD1 > (D3)
<223 - AMIDATION
Ene Ala Lys Lys Leu Ala Lys Lys Leu Lys Lys Leu Ala Lys Lys Leu
<400 → 4
 1 5
Ala Lys Leu Ala Leu Ala Leu
        20
 k2105 5
 ₹2110 38
 .1120 PFT
 .21M. SYNTHETIC
 k.22009
 .331> MOD_RES
 RDDL - (38)
RDDB - AMIDATION
 Met Fro Lys Trp Lys Val Phe Lys Lys Ile Glu Lys Val Gly Arg Asn
  lle Arg Asn Gly Ile Val Lys Ala Gly Pro Ala Ile Ala Val Leu Gly
                         25
  Glu Ala Lys Ala Leu Gly
       35
  2216 × 6
  -ID12 · PFT
  -:_1 · · JYNTHETIC
  Fre Ala Lys Lys Leu Ala Lys Lys Leu Lys Lys Leu Ala Lys Lys Leu
  -:400 > 6
            5 10
  Ala Lys Leu Ala Leu Ala Leu
```

```
· . . . . 7
· III. · IRT
- ... - CYNTHETIC
. 22:
.221 - MUC_PES
AMIDATION
Giy Ilw Gly Lys Phe Leu His Ser Ala Lys Lys Phe Gly Lys Ala Phe
Val Gly Gly Ile Met Asn Ser
     20
 <210\times^{-10}
 k211 + 33
 \text{k212} \leftarrow \text{FFT}
 . 212 · SYNTHETIC
 4.2200s
 VEST - MODERES
 (23)
 . MOBS AMIDATION
 Phe Ala Leu Ala Ala Lys Ala Leu Lys Lys Leu Ala Lys Lys Leu Lys
 <400 > 3
  1 5
  Lys Leu Ala Lys Lys Ala Leu
           20
  <210> 9
  +211 + 13
  <212> PFT
  HEELS & SYNTHETIC
  .1200
  <123 + AMIDATION</pre>
   The Ala Leu Ala Leu Lys Ala Leu Lys Lys Leu Leu Lys Lys Leu Lys
                                10
    1
   Lys Leu Ala Lys Lys Ala Leu
           20
   . 111 - 10
   .211 - 23
   . Dil - PF.T
   HOU03:711794.2
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```
SYNTHETIC
. . . : Medi_FES
. DIT: - AMIDATION
Fig. 1: 15 Leu Ala Leu Lys Ala Leu Lys Lys Leu Ala Lys Lys Leu Lys 15
 Lys Leu Ala Lys Lys Ala Leu
           20
 4,210 - 11
 <2111 -1
 CILIN FFT
 .213 SYNTHETIC
 KI20 h
 <222> (21)
  COOKS AMIDATION
  Fre Ala Leu Ala Lys Leu Ala Lys Lys Ala Lys Ala Lys Leu Lys Lys
  . 4mg> 11
                5
  Ala Leu Lys Ala Leu
              20
   <2105 12
   <211 \ 19
   CI125 FRT
   <213 SYNTHETIC
   <220 S
   KIRTH MOD_RES
   k2125 (19)
   .000 AMIDATION
    Phe Ala Leu Ala Leu Lys Ala Leu Lys Lys Leu Lys Lys Ala Leu Lys
                           10
            5
    Lys Ala Leu
    1119 - 13
     <211 · 19
     COLO: PRT
     -113 · SYNTHETIC
     . 400 - 13
     HOU03:711794.2
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```
Pho Ala Leu Ala Leu Lys Ala Leu Lys Lys Leu Lys Lys Ala Leu Lys
                                      10
Lys Ala Leu
< 14
.11.19
.1212 - FRE
CITE - SYNTHETIC
Pho Ala Lys Lys Leu Ala Lys Lys Leu Lys Lys Leu Ala Lys Leu Ala
               -
5
 Leu Ala Leu
 ×2165 15
 <211 × 23
 \cdot \,\, \mathbb{I}_{1,\mathbb{C}} = \mathrm{ir} \, \mathrm{F.T}
 <213 - SYNTHETIC
 <0.000
 .:::: MOD_RES
 .jjj25 :23)
 .223 · AMIDATION
 Val Ala Leu Ala Leu Lys Ala Leu Lys Lys Ala Leu Lys Lys Leu Lys
 400 - 15
  <u>:</u> 5
  Lys Ala Leu Lys Lys Ala Leu
            20
  ₹2105-1€
  <211: 10
  v211 · PF.T
  .113 · SYNTHETIC
  4, 22013
  .221 - MOD_RES
   · 112 · (16)
   .::3 - AMIDATION
   Phe Ala Leu Ala Leu Lys Lys Ala Leu Lys Ala Leu Lys Ala Leu
                                       10
   1 5
   .21( + 17
.21_ + 17
   ...1. · FF.T
    NILL SYNTHETIC
    HOU03:711794.2
```

```
. 330 -
. DOD_RES
455 - 17
The Ala Lys Lys Leu Ala Lys Leu Ala Lys Leu Ala Lys Leu Ala
         5 10
[.44]
k2105-13
· 111 · 19
k212 + PRT
. 213 · SYNTHETIC
-1110·
 <211 · MOD_RES</pre>
 <222 - (19)</pre>
 KOLTAGIMA **ECC>
 <400 - 13
 Fne Ala Lys Lys Leu Ala Lys Leu Ala Lys Leu Ala Lys Leu Ala
                  5
 Leu Ala Leu
 <310 - 19
 <211 × 23
 <212> FET
 <:11:> SYNTHETIC
 <220>
 <!!!> MOD_RES
 <.122> (13)..(14)
 < Dollar = D-lysine</pre>
  k400> 19
  The Ala Leu Ala Leu Lys Ala Leu Lys Lys Ala Leu Xaa Xaa Leu Lys
                                  10
  {\it Lys} {\it L}la Leu Lys Lys Ala Leu
           20
  21 4 25
  · 211 · 11
  WILLS FET
  . [13 · SYNTHETIC
  . 220 -
  · IC1> MOD_RES
  HOU03:711794.2
```

```
<:....> (1*)
AMIDATION
<41.* - (1)
From Acas Lys Leu Ala Lys Leu Ala Lys Leu Leu Ala Leu
        5
<219 0.1
.111 - 15
WILL - EFT
CONTRACTOR
.120 - (15)
.223 - AMIDATION
 Fhe Ala Lys Lys Leu Ala Lys Leu Ala Lys Lys Ala Leu Ala Leu
 .400 - 21
                          10
 1 5
 <2105 GD
 .211 - 15
.212 PPT
 ANTES SYNTHETIC
 4.0000
 .222 · MOD_RES
 . [[] > AMIDATION
  <400> 00
  Phe Ata Leu Ala Lys Lys Ala Leu Lys Lys Ala Lys Lys Ala Leu
                               10
         5
  .210× 23
  P2119 19
  . Din · PHT
  WINTERIC
  1.0208
  ..202 \ (19)
  .223 · AMIDATION
   Phe Ala Lys Lys Leu Ala Lys Lys Leu Lys Lys Leu Ala Lys Leu Ala
                                10
              5
   Leu Ala Lys
   4.01 No. 24
   HOU03:711794.2
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```
<11. 1.2
< 1.1. + 1\,\mathrm{RT}
CITAHTUY: ....
.1_.1
.uni - MOD_RES
HERE HALL TO AMIDATION
 Bry Tie Gly Lys Phe Leu Lys Lys Ala Lys Lys Phe Gly Lys Ala Phe
\{465\times74\}
         5
 Val Lys lie Leu Lys Lys
              20
 00109-25
<2119-13
 KO11 - PRI
 <2135 SYNTHETIC
 <220%
 <2215 MOD_RES</pre>
 <2225 (13)
 < 223 > AMIDATION
  .400 - 25
  The Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys Leu Leu
  1 5
  <2109-26
  <211> 15
  RET / CICs
  <213. SYNTHETIC
  <2.20%
   <2218 MOD_RES</pre>
  <221> (15)
   RECENT AMIDATION
   The Ala Lys Leu Ala Lys Leu Ala Leu Lys Leu Ala Lys Leu
                     5
   +210 + 27
   . . . . . . . 4
   +2.17~\times~F.T
   . DIB - SYNTHETIC
   22 1 C 3
   .221. MOD_FES
    <!!! AMIDATION</pre>
```

```
<1. . 27
Fre A. a Lys Lys Leu Ala Lys Lys Leu Ala Lys Leu Ala Leu
: 5
. _1.0 - 00
+ 111 + 15
+ 112 + FRT
. 31. - CYNTHETIC
1.220
<201 - MOD_RES</pre>
.212 · (15)
. [] AMIDATION
<400 · 23
The Ala Lys Lys Leu Lys Lys Leu Ala Lys Leu Ala Lys Leu
 5 10
×210 × 29
 k211 + 12
 ROIDS PRT
 -113> SYNTHETIC
 -220-
 .331 \ MOD_RES
 . 332 - (13)
 <.ii3 + AMIDATION</pre>
 - 400 × 29
 Fhe Ala Lys Lys Ala Leu Lys Ala Leu Lys Lys Leu
 5 10
 RILLAR 30
 k211 × 13
  <212 S PRF
 RO135 SYNTHETIC
  .2205
  <221 NOO RES
  vaaa (13)
  . 223 - AMIDATION
  .400 - 30
  Val Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys Leu Leu
  5
  111 - 31
  9 111 × 11
  +0.17 \times \text{FRT}
  . III - SYNTHETIC
  . 22.3
  - 111 - MIDD_RES
  HOU03:711794.2
```

```
<.:23 ~ (13)
<... AMIDATION
Free Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys Leu
<4: 31
5
. 214 · 31
· 211 · 17
.212 - FRT
KILLS SYNTHETIC
 .220→
 CIPT MOD_RES
 Kada (17)
 + 222 - AMIDATION
 Val Ala Lys Lys Leu Ala Lys Leu Ala Lys Leu Ala Lys Leu Ala
 .400×33
                 5
  Leu
 ...10> :3
  211 · 15
  0.2105 FET
  CLIBS SYNTHETIC
  k310>
k311> MOD_RES
  k2225 (15)
  COLOR AMIDATION
   Lys Trp Lys Leu Phe Lys Lys Ile Gly Ala Val Leu Lys Val Leu
  <4005 33
             5
   .2108 34
   - 211> 13
   KI12> PRT
   -113 SYNTHETIC
    4.2204
    .001 - MOD_RES
    + 323 + AMIDATION
    Fh.e Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys Ala Leu
    400 34
     1 5
     <1210> 35
     HOU03:711794.2
                                    74 of 110
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```
.311 13
. .... + FFT
· ... CYNTHETIC
...200
....1 . M.L._FES
- 111 - 111)
- 111 - AMIDATION
 Pne Ala Lys Leu Leu Ala Lys Ala Leu Lys Lys Leu Leu
.400 - 35
 <2108 36
 <211\times13
 3010 - FRT
 Wills SYNTHETIC
 <221 \ MOD_RES</pre>
  <221> (13)
  . 1135 AMIDATION
  Phe Ala Lys Leu Leu Lys Leu Ala Ala Lys Lys Leu Leu
  <4005 36
  1 5
  k210 + 37
  <211 · 10</pre>
   <2.12\times {\rm PET}
   .213 SYNTHETIC
   /2205
k221> MOD_RES
   . 2005 (10)
   .223> AMIDATION
   V4005 37
    The Ala Lys Leu Leu Ala Lys Lys Leu Leu
    1 5
    0.010 \pm 36
    .311 - 10
    . 11. · PP.I
    .313 - SYNTHETIC
    1220
    WIDELS MOD_RES
     Fre Ala Lys Lys Leu Ala Lys Ala Leu Leu
     .;;:--- 38
                       5
     HOU03:711794.2
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```

```
< 210 - 39
- 212 - EPT
- DIF - SYNTHETIC
. 21.5
.221 - M.D_RES
- 321 × (16)
.203 - AMIDATION
 The Ala Lys Lys Leu Ala Lys Lys Leu Leu
 .400x 39
              5
 <210 × 40
 32113 9
 COlor PHT
  <213 · SYNTHETIC
  <220
  <221 MOD_PES
  <222> (9)
<223> AMIDATION
  .400> 40
   The Ala Lys Leu Ala Lys Lys Leu Leu
              5
   <2105 41
   <2115 17
   KD125 PRT
   AD13 SYNTHETIC
    the Ala Lys Leu Ala Lys Leu Ala Lys Leu Ala Lys Leu Ala
   .400> 41
            - - 5
    1,50
    ...105 42
    . 211 - 13
    <2.12\times~PRT
    . 113 · SYNTHETIC
     3 2 2 2 3 3 A
     .ali . MOD_RES
     . 112 - (13)
     . 133 - AMIDATION
     Ile Leu Pro Trp Lys Trp Pro Trp Trp Pro Trp Arg Arg
     2.400 > 42
      HOU03:711794.2
                                       76 of 110
```

```
10
< 111 - 13
*.:11 · 1/,
•.:1. · FRT
. . :: - CYNTHETIC
.1114 .
.211 . MrE_PES
..... 15)
. 223 - AMIDATION
 the Ala Lys Ala Leu Lys Ala Leu Lys Ala Leu Lys Ala Leu
-450° 42
 5 10
 <210 \times 44
 +211 + 13
 22122 PPT
 ..2135 SYNTHETIC
 <22D>
 RIBIN MOD_PES
 K220% (13)
 ALDS AMIDATION
 The Ala Lys Leu Leu Ala Lys Leu Ala Lys Ala Lys Leu
 × 400× 44
  1 5
 - 2105 45
  <3115-13
  kolon PFT
  CO130 SYNTHETIC
  < 2205
  .221 MOD_RES
  2005 (19)
  <223 > AMIDATION
  . 400× 45
   the Ala Lys Leu Leu Ala Lys Leu Ala Lys Leu Lys Leu
   1 5
   .110 46
   · 213 SYNTHETIC
   .210.
.211.MOD_RES
.000..020
   · 223 · AMIDATION
   HOU03:711794.2
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```
Ph. A.: Lys Lys Leu Ala Lys Lys Leu Lys Lys Leu Ala Lys Lys Leu
Ala Lya Lys Trp Lys Leu
            20
4.210 - 47
42115 18
4212 - PRT
CL13 SYNTHETIC
 Fhe Ala Lys Lys Leu Ala Lys Lys Leu Lys Lys Leu Ala Lys Lys Leu
 <400 > 47
         . 1 5
 Ala Lys
 <210×48
  <211 × 22
  COLDS PET
  -CO13 SYNTHETIC
  Fine Ala Lys Lys Leu Ala Lys Lys Leu Lys Lys Leu Ala Lys Lys Leu 10
  <400 \times 48
   Ala Lys Lys Trp Lys Leu
             20
   <210> 49
   ₹211> 23
    CIIIDO FET
    Clime SYNTHETIC
    <120°
    .331 . MOD_RES
    .222 (23)
    <213 > AMIDATION
     Lys Tip Lys Leu Phe Lys Lys Lys Thr Lys Leu Phe Lys Lys Phe Ala
    . 41:(1 . 49
     Lys Lys Leu Ala Lys Lys Leu
               20
     . _1 - . 50
      <211 - 13
      .111 > PF.T
      -113 - SYNTHETIC
      HOU03:711794.2
                                       78 of 110
```

```
ADL: MOD_RES
HOLL (11)
Free Asa Lys Lys Leu Ala Lys Lys Leu Ala Lys Ala Leu
<400 - 50
            5
4.2105 51
 <211 × 13
 ROID - EFT
ROID - SYNTHETIC
 1225
 -231 - WOD_RES
 .223 - AMIDATION
  Fre Ala Lys Lys Leu Ala Lys Lys Leu Ala Lys Leu Leu
 .400 > 51
           5
  N.2109-52
  <21115 14
  K212 - PRT
K213 - SYNTHETIC
  · 0220 /
  <!!! MOD_RES</pre>
   <222× (14)
   .003> AMIDATION
   The Ala Lys Lys Leu Ala Lys Lys Leu Ala Lys Ala Ala Leu
   <400> 52
                5
   1
   QD105 53
    3,2115 15
    .113 - PRT
    ...13 SYNTHETIC
    - 220%
    - 201 - MOD_F.ES
    . 112 - 157
    - 203 - AMIDATION
     the Fla Lys Lys Leu Ala Lys Lys Ala Lys Leu Ala Lys Lys Leu
    . 4 ) 🦠 - 53
                5
     <215 / E4
     HOU03:711794.2
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```
<211:12
.21. PT
. 200
.2.1 - 12.5_RES
(22.0 \pm 1.5)
- 12: - AMIDATION
 Fig. Als bys Lys Leu Lys Lys Leu Ala Lys Lys Leu
41.7
         . _ 5
 20109 St
 k211× 23
 1.0111 \times \mathrm{PFT}
 HELLS STUTHETIC
  Lys The Lys Leu Phe Lys Lys Phe Ala Lys Lys Leu Ala Lys Lys Leu
  Lys Lys Leu Ala Lys Lys Leu
           20
  <310× 56
  4,0115-13
  . 111 · FRT
  COLF SYNTHETIC
   Lys fre Lys Leu Phe Lys Lys Lys Thr Lys Leu Phe Lys Lys Phe Ala
   <400≥ 56
                5
   Lys Lys Leu Ala Lys Lys Leu
                20
    ...16× 57
    . 1120 PRT
    · 213 · SYNTHETIC
     Ile Leu Pro Trp Lys Trp Pro Trp Pro Trp Arg Arg
    . 4500 - 57
     J119 - 58
     .011 - 13
     ._1I · PRT
     . ... SYNTHETIC
     . 117
     ..... MOD_RES
     HQU03:711794.2
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```
<_:25 (13)</pre>
KODIN AMIDATION
Pro Ala Lys Ala Leu Ala Lys Leu Ala Lys Lys Leu Leu
<4^{n}\cdot 3^{n-1/2}\cdot
2.220 x 5 P
.511 - 13
 William FFT
- 313 - SYNTHETIC
 4.2208
 .201 MOD_RES
 <222 (13)</pre>
 . 2003 - AMIDATION
 Prie Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys Ala Ala
 .400 - 59
  1 5
  <2108 60
  <2115 13
  /312× PPT
  <213 SYNTHETIC
  <220°
  COLIN MODIRES
  . 201 (13)
  SEEDS AMIDATION
   Phe Ala Lys Leu Leu Ala Leu Ala Leu Lys Leu Lys Leu
   .400 + 60
   i 5
   <110 > 61
   k2115 13
   .313: PRT
    . [13 - SYNTHETIC
    . 220 h
    ..... MOT_RES
    . 322 - (13)
    - 223 - AMIDATION
     Fr.e Ala Lys Leu Leu Ala Lys Leu Ala Lys Ala Lys Ala
    -400 + 61
     1 5
     - .:1: - 62
     .111 - 13
     .21. · PRT
     HILLS . SYNTHETIC
     HOU03:711794.2
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```
KILLS - AMIEATION
34 (14) + P.L
Ene Ala Lys Leu Leu Ala Lys Leu Ala Lys Ala Lys Gly
                           10
4.210 × 62
<311 < 31
COIDS PPT
.213 · STNTHETIC
.220>
+ 221 + MOE_RES
. 222 - (31)
 AMIDATION - 111
 Fne Ala Lys Lys Leu Ala Lys Lys Leu Lys Lys Leu Ala Lys Lys Leu
 4002 63
 Ala Lys Leu Ala Leu Ala Leu Lys Ala Leu Ala Leu Lys Ala Leu
         20
 k010 - 64
  -111 - 23
  ...125 PES
  AD13 · SYNTHETIC
  Phe Ala Lys Lys Leu Ala Lys Lys Leu Lys Lys Leu Ala Lys Lys Leu
                     10
  Ile Gly Ala Val Leu Lys Val
              20
  .110> 65
   #111 · 13
   4.112 - PET
   CITE SYNTHETIC
   . <u>__</u>__(1) ·
   · LB1 · MOD_RES
   .122 (13)
   . 113 - AMIDATION
   - 47( + 65
   Fr.e Ala Lys Leu Leu Ala Lys Ala Leu Lys Leu
    1 10
```

```
< 213 - 65
+311 + 13
-212 - PFT
· 213 · SYNTHETIC
- 201 -
- 201 - MAD_RES
- 201 - (1-)
- 204 - AMILATION
 the Ala Lys Leu Leu Ala Lys Ala Leu Lys Lys Ala Leu
 4.110 \pm 67
 .2115 11
.211 FFT
 KILLS SYNTHETIC
 <22000
  <_01 · MOD_PES</pre>
  kasa / (12)
  <2230 AMIDATION
  The Ala Lys Leu Leu Ala Lys Ala Leu Lys Lys Leu
   ₹210 - 68
   <211: 20
   CO1D> PET
   <213% SYNTHETIC
   <220 %
   <221 MOD_RES
   <2223 (20)
   C2235 AMIDATION
    Lys Trr Lys Leu Phe Lys Lys Ala Leu Lys Lys Leu Lys Lys Ala Leu
    <400% 68
                   5
    Lys Lys Ala Leu
                  20
    121 69
     ..135 FET
     . 13 · SYNTHETIC
     - 115 b
     .001 · MOD_RES
     . Lis - AMIDATION
      HQU03:711794.2
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```
Lys ... Ala Lys Val Ala Leu Ala Lys Leu Gly Ile Gly Ala Val Leu
Lys Mar Lou Thr Thr Gly Leu
            20
.110 - 10
-111 - 12
 . 3135 PRT
 COLDS SYNTHETIC
 4.220%
 CODIN MOD_PES
 . 2119 (17)
 .223% AMIDATION
 Fr. Ala bys Lys Leu Ala Lys Leu Ala Lys Leu
 J4695 70
           5
  <210 > 71
  02115-19
  CD12 · PRT
  K213 SYNTHETIC
  4.220m
  kidik MOD_F.ES
   C2235 AMIDATION
   Met Fre Lys Glu Lys Val Phe Leu Lys Ile Glu Lys Met Gly Arg Asn
   <400> 71
   1
   Ile Arg Asn
    ..210 - 72
    -3119-26
    World FRE
    .. 135 SYNTHETIC
    .220 MOD_RES
    . _1. (26)
    -223 AMIDATION
     The Gly Ala Val Leu Lys Val Leu Thr Thr Gly Leu Pro Ala Leu
     .405 72
     lie Ser Trp Ile Lys Arg Lys Arg Gln Gln
     HOU03:711794.2
                                     84 of 110
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. . . . . 73
.211 - 16
. Fig. ( ) FFT
-213 - CYNTHETIC
.11. .
.11. M E PES
- 332 · (14)
COOK AMERICAN
 Phe Ala Lys Lys Leu Ala Lys Leu Ala Lys Lys Leu Ala Lys Ala Leu
₹400% 73
          . . . 5
 1
 vilo> 74
 <511 - 10
 COID - PRT
 <213 - SYNTHETIC</pre>
 k22008
 <221> MOD_RES
 Pagas (12)
 .223 - AMIDATION
 -400> 74
  Phe Ala Lys Lys Leu Leu Ala Lys Ala Leu Lys Leu
  1 5
  <2100 75
  . 2115 13
  RET PET
  <2135 SYNTHETIC
  42200H
  RES COM FEE NOTES
   -<u>222</u>5 (13)
   ROITAGINA - EEEE-
   400 - 75
   Fine Ala Lys Phe Leu Ala Lys Phe Leu Lys Lys Ala Leu
                             10
    5
   . ; .: - 7€
   .111 - 13
   .212 PP.T
   .013 SYNTHETIC
   - 12...
- 121 - MODERES
- 711 - (13)
- 213 - AMIDATION
    HOU03:711794.2
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Fig. Ala Lys Leu Leu Phe Lys Ala Leu Lys Lys Ala Leu
5
._16. 77
::L · PFT
· J17 · SYNTHETIC
KIDIN MOD_RES
 .2225 (13)
 CODES AMIDATION
 The Ala Lys Leu Leu Ala Lys Phe Leu Lys Lys Ala Leu
 . 400x 77
                 5
 k2105 78
 .0115 13
  CD12% FET
 .213% SYNTHETIC
 <22005
  .221 MOD_RES
  .2325 (13)
  · 123 > AMIDATION
  Fr.e Ala Lys Leu Leu Ala Lys Ala Phe Lys Lys Ala Leu
  .400> 78
   1 5
   <2105 79
   <211 - 13
   KD1D'S PRT
   <213 - SYNTHETIC
   . 210 ×
   .221 MOD_RES
   .2025 (13)
   · 223 · AMIDATION
    Fhe Ara Lys Leu Phe Ala Lys Ala Phe Lys Lys Ala Leu
    .400> 79
    i 5
    ...10> 80
    .2115 13
    ...11. - PF.T
    . .:1: - SYNTHETIC
    . <u>::</u>:) >
     HOC03:711794.2
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```
*...21 > MCD_PES *...23 + (12)
.u... AMIDATION
Fire Ala Lys Leu Leu Ala Lys Ala Leu Lys Lys Phe Leu
3460 31
471: 4 E1
. 311 - 14
\sqrt{212} \sim FPT
- 1132 SYNTHETIC
 v2205
 RIDIN MOD_PES
 R1225 (14)
 . 2235 AMIDATION
 Fho Ala Lys Leu Leu Ala Lys Ala Leu Lys Lys Phe Ala Leu
 ₹400% 81
            5 10
 < 210 > 32
 <2115-14
  .212 > PPT
  <213> SYNTHETIC
  <2200≥
  RES MOL RES
  <2001> (14)
  C223> AMIDATION
  Fine Ala Lys Leu Ala Lys Leu Ala Lys Lys Phe Ala Leu
  ₹400> 82
           5 10
   1
  ×2105 83
  30118 14
   .1120 FFT
   .113 - SYNTHETIC
   - 110 -
   ...al - MOL_RES
   - 132 - (14)
   ....3 × AMIDATION
   ₹400> 83
   The Ala Lys Leu Phe Ala Lys Leu Ala Lys Lys Phe Ala Leu
            5 10
    ._1> 84
    .0115-13
    . [1] FFT
    HOU03:711794.2
```

```
<_!!! YNTHETIC</pre>
...21 · MID_FES
21112 - 1131 -
AMIDATION
Fig. Lyr Lei Ala Phe Lys Leu Ala Lys Lys Ala Phe Leu
4459 - 54
 5
-2105 85
.311.-10
 COLDS FRT
 <:13> SYNTHETIC
 .2205
 COLI MOD_RES
 \zeta_{0,0,0} \sim (10)
 <!-- AMIDATION</pre>
 ₹4005 35
 Phe Ala Lys Leu Leu Ala Lys Leu Ala Lys
 1 5
 k1105 86
 <2115 13
 <211 > FRT
 W213 SYNTHETIC
 .1105
  .0015 MOD_RES
  <2235 AMIDATION</pre>
  Prie Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys Val Leu
  ₹400> 86
  1 5
  <210 - 87
  +211 + 13
  .312 · PFT
   - 313 SYNTHETIC
   . Jil . MOD RES
   · 322 - (13)
   AMIDATION < 111
   The Ala Lys Leu Leu Ala Lys Leu Ala Lys Ile Leu
   <400> 87
    : 5
```

```
<110 \ 88</p>
. [ ] · 1?
\text{col}_{n+1} \in \text{PT}
· ... SINTHETIC
4.200 m
.... NOW RES
-400 \pm e^{2} From Ala Lys Leu Ala Lys Leu Ala Lys Lys Glu Leu and Lys Lys Leu Leu Ala Lys Leu 10
              5
 4,210 - 53
 <2119-15
 .1125 FET
 <213 · SYNTHETIC</pre>
 . 21U⇒
 .2215 MOD_RES
  . 221> (13)
  RODES AMIDATION
  Phe Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys Ser Leu
  .400> 89
              5
   1
  k1105 90
  40115 5
   1212 · PRZ
   <213 SYNTHETIC
   <2200
   <211> MOD_RES
   - 222> (5)
   <223> AMIDATION
    <400> 90
    Phe Ala Lys Leu Ala
    1.
    ..213 - 91
    .111 - 5
    Kill - PRT
- 213 - SYNTHETIC
     .331 · MOD_RES
     . [225 (5)
     .223 - AMIDATION
     . 400 - 91
     Fre Ala Lys Leu Phe
     HOU03:711794.2
```

```
4.11 : 4 B
- 1115 E
SILS FPT
. [] - CYNTHETIC
.01...
.001.000_RES
.001.160
- 123 - AMIDATION
k4008-92
 Lys Ala Lys Leu Phe
\sim 210 \times 33
 - 2115 5
 .111 > FF.T
 <213 SYNTHETIC
 k220%
 kl21> MOD_RES
 <2225 (5)
 KIDBY AMIDATION
 <400× 33
  Lys Trp Lys Leu Phe
  <210° 94
  <211 · 13
  <2125 PFT
  <213> SYNTHETIC
   <2200>
   KIBI - MOD_RES
   √222 · (13)
   <223> AMIDATION
   The Gly Lys Gly Ile Gly Lys Val Gly Lys Lys Leu Leu
                             10
            5
   + 110 + 35
   COLD SYNTHETIC
   .221 MOD_RES
.221 (15)
.222 AMIDATION
```

```
Fre Ala Phe Gly Lys Gly Ile Gly Lys Val Gly Lys Lys Leu Leu
<4:.3 • 35
2010 × 36
.311* 23
- Lim - PRI
-:Il: SYNTHETIC
kl20 *
kl21 * MOD_RES
 <2005 (20)
 <223> AMIDATION
 Phe Ala Lys Ala Ile Ala Lys Ile Ala Phe Gly Lys Gly Ile Gly Lys
                  5
 Val Gly Lys Lys Leu Leu
             20
 <2105 97
 k2115 22
  CO120 PRT
  W213 SYNTHETIC
  +3205
  ...21> MOD_RES
  kada - (22)
  RODIB - AMIDATION
  Fne Ala Lys Leu Trp Ala Lys Leu Ala Phe Gly Lys Gly Ile Gly Lys
  :400> 97
                            10
   Val Gly Lys Lys Leu Leu
               20
   4.2105 35
   - 1115-12
   .312 · PFT
   - 213 - SYNTHETIC
    - 220 ·
    . III MOD_FES
    January (12)
    ADD3> AMIDATION
    The Ala Lys Leu Trp Ala Lys Leu Ala Lys Lys Leu

10
    . 49n> 98
```

```
₹.: · 39
. 111 × 13
. 140 - FRT
. [13 . CYNTHETIC
. 22. . .
. Jan - Mote_RES
. II. - AMIEATION
 Ene Ala Lys Gly Val Gly Lys Val Gly Lys Lys Ala Leu
1400 × 39
              5
 <2109 100
 <211 × 15
 \sqrt{2}\,1\,2\,\times\,FFT
 . 113 SYNTHETIC
 . 220 h
 MOITAGIMA <8888 ×
  Fine Ala Phe Gly Lys Gly Ile Gly Lys Ile Gly Lys Lys Gly Leu
  4400> 100
  1
  . 210> 101
  .211 - 16
  <210. PFT</pre>
  <213 SYNTHETIC
  <220>
   <221 > MOD_RES
   <2225 (16)
   < D23> AMIDATION
   The Ala Lys Ile Ile Ala Lys Ile Ala Lys Ile Ala Lys Lys Ile Leu
               5
   .210 - 102
   . 211 - 15
    . [1] - FRT
    HILL SYNTHETIC
    4.020
    . .... AMIDATION
    Fine Ala Phe Ala Lys Ile Ile Ala Lys Ile Ala Lys Lys Ile Ile
    HOU03:711794.2
                                     92 of 110
```

```
15
1 5
```

```
...: 15 103
._11 · :
._11 · :RT
· DIE · SYNTHETIC
. J13 - AMIDATION
.4005 103
 the Ala Leu Ala Leu Lys Ala
         5
 1
 <210 > 104
<211 > 12
<212 > FRT
 <213> SYNTHETIC
 4220>
 <221> MOD_RES
 <2223 (12)
 CICE AMIDATION
  <400 > 104
  Lys Trp Lys Leu Ala Lys Lys Ala Leu Ala Leu Leu
          5
  - 210> 105
  k2115 10
  .212> PRT
  <213> SYNTHETIC
   <220 ≥
   P121> MOD_RES
   <222> (12)
   . 223> AMIDATION
   The Ala Lys Ile Ile Ala Lys Ile Ala Lys Ile
   .400 > 105
            5
    .1105 106
    . 213 SYNTHETIC
    120%
-201 MOD_RES
-210 (12)
    . 113 - AMIDATION
```

```
Ene Ala Leu Ala Leu Lys Ala Leu Lys Lys Ala Leu
<400 - 106
. . . 117
.11: - 9
-_1: - PFT
.213 . SYNTHETIC
J2005
 C111: MOD_RES
K2225 (8)
<223% AMIDATION
 k4005 107
 Phe Ala Leu Lys Ala Leu Lys Lys
 <2105 108
 k2115 13
 4212> PRT
 3313> STNTHETIC
 <0.10>
  <221> MOD_RES
  <222> (13)
  <122> AMIDATION
  Lys Tyr Lys Lys Ala Leu Lys Lys Leu Ala Lys Leu Leu
           5
  k210> 109
   <2115-17
   - 212> PRT
   <213> SYNTHETIC
   :220>
   .231> MOD_RES
   .222 - (17)
   . 113 · AMIDATION
    Fre Lys Arg Leu Ala Lys Ile Lys Val Leu Arg Leu Ala Lys Ile Lys
    hig.
    .110% 110
     .211 . 13
     .112 · PRT
     HOU03:711794.2
                                      94 of 110
```

```
<313 - SYNTHETIC
<...20
....RES
ACCC+ (13)
HILLS - AMIDATION
End Ala Lys Leu Ala Lys Lys Ala Leu Ala Lys Leu Leu
 5
. 2100 111
 <2115 13
 CO10> PPT
 <213> SYNTHETIC
 -1208
 ...
<121 - MOD_RES</pre>
 (13)
 WILL STORY
 <22008
 RDD1 - MOD_RES
 <2225 (13)
 COOR AMIDATION
  <4005 111
  Lys Ala Lys Leu Ala Lys Lys Ala Leu Ala Lys Leu Leu
             5
  . 3105 112
  .211> 17
  KIIIDS PRT
  <213> SYNTHETIC
   <2200>
   .221: MOD_RES
   <222> (17)
   < JIBD AMIDATION</pre>
   Lys Leu Ala Leu Lys Leu Ala Leu Lys Ala Leu Lys Ala Ala Lys Leu
                    5
    Ala
    -3100 113
    <2115 11
    C212 - PF.T
    .213 · SYNTHETIC
    ..<u>:::</u>) ·
    .221> MOD_RES
    HOU03:711794.2
```

```
<...22 (11)
KLIF AMIDATION
<400 - 111
Fire Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys
5
COID - FFT
.213. SYNTHETIC
 <220°
 .2215 MOD_RES
 <122> (13)
 .323> AMIDATION
 Phe Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys Gly Leu
 .4000-114
                  5
 .216. 115
  <2115 1
  <2125 PET
  k213> SYNTHETIC
  <400> 115
  Met
  <210× 116
   ..211> 13
   <312> PET
   RILLAND SYNTHETIC
   <220>
   ROOL MOD_RES
   Val Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys Val Leu
   -460× 116
                     5
    .210 - 117
    .211: 13
    -1117 FET
    - 213 - SYNTHETIC
    .100%
.011 - MOD_RES
.111 - (13)
     AMIDATION .
     HOU03:711794.2
```

```
<4000 117
Tyr Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys Ala Leu
          5
+1,10 · 118
. 11 . 17
- Mil - PRT
. :11: SYNTHETIC
. 1200 -
J221 - MODE_RES
<2225 (17)
REES AMIDATION
Lys Leu Lys Leu Leu Leu Lys Leu Tyr Lys Lys Leu Leu Lys Leu
                           10
 i 5
 Leu
 P210> 119
 <211> 26
 <212> PPT
 . 213> SYNTHETIC
 <220>
 RES MOD_RES
 KCCC> (26)
 HIZZER AMIDATION
  Phe Ala Val Gly Leu Arg Ala Ile Lys Arg Ala Leu Lys Lys Leu Arg
 <400> 119
                        10
  Arg Gly Val Arg Lys Val Ala Lys Asp Leu
              20
  <210> 120
  <211> 16
  kD120 FRT
  -2130 SYNTHETIC
  . ___() >
   ..... MOD_RES
  +132+(16)
+123> AMIDATION
   Lys Leu Ala Lys Lys Leu Ala Lys Leu Ala Lys Leu Ala Lys Ala Leu
   . 400> 120
                         10
   1 5
```

```
<2165 101
k211 - 16
421. · PET
-213 - STNTHETIC
Lys Lea Ala Lys Lys Leu Ala Lys Leu Ala Lys Leu Ala Lys Ala Leu
2400 · 121
.110 - 120
.111 - 9
+210 + FFT
42138 SYNTHETIC
 <2205
 +2215 MOD_RES
 · 222 · (9)
 .223% AMIDATION
 ₹400> 122
 Lys Trr Lys Lys Leu Ala Lys Lys Trp
  1 5
 +210> 123
 <211> 9
<212> PRT
  <2130 SYNTHETIC
  ₹400 - 123
  Lys Trr Lys Lys Leu Ala Lys Lys Trp
           5
  <210> 124
  <.311> 17
  <212> PRT
  .213> SYNTHETIC
   -0205
   .212 \cdot (17)
   .223> AMIDATION
   Lys Leu Trp Lys Lys Trp Ala Lys Lys Trp Leu Lys Leu Trp Lys Ala
   - 400 × 124
    FrF
    <210× 125
    .211 > 16
    -212 - FF.T
    · 113 · SYNTHETIC
    HOU03:711794.2
```

```
Lys Los Crr Lys Lys Trp Ala Lys Lys Trp Leu Lys Leu Trp Lys Ala
<40...125
2016 - 126
..11 - 11
.313. PPT
. 31: - SYNTHETIC
C2200
 CILIN MOD_RES
 J222 ~ (11)
 .2235 AMIDATION
 Fre Ala Leu Ala Leu Lys Ala Leu Lys Lys Leu
 .400~ 126
                   5
  <2105 127
  .2115 11
  COLUM PET
  .213> SYNTHETIC
  <220°s
  <121> MOD_RES
  . 2225 (11)
  COLDS AMIDATION
   Phe Ala Leu Ala Lys Ala Leu Lys Lys Ala Leu
  <400> 127
             5
   <310> 118
   <211> 12
   PRI
   <213> SYNTHETIC
   - 2205
    <!!! MOD_RES</pre>
    3222 · (12)
    ...335 AMIDATION
    Fine Ala Leu Ala Leu Lys Leu Ala Lys Lys Ala Leu
    ..400 - 128
     <210> 129
     .311> 6
     .31.5 PRT
     WILLS SYNTHETIC
     k,220%
     HOU'03:711794.2
```

```
<:3315 MFD_PES</pre>
RUDBY AMIDATION
8490 · 119
Fre Ala Leu Leu Lys Leu
.216 - 130
-211 - 10
- Dil - FRT
WILLS SYNTHETIC
<220>
 <dd1> MOD_RES
 <2225 (10)
 HARRY AMIDATION
 4400> 130
 Fine Ala Leu Ala Leu Lys Ala Leu Lys Lys
        5
 1
 <2105 131
 *211> 10
 PFT
 <2135 SYNTHETIC
 <2220≥
 <221> MOD_RES
<222> (10)
  <!!! AMIDATION</pre>
  <400> 131
  Phe Ala Leu Lys Ala Leu Lys Lys Ala Leu
         5 10
  1
  <.210> 132
  22115 11
  <212> FET
  <213% SYNTHETIC
  H2205
  .331 MOD_RES
  . 222 - (11)
   223 - AMIDATION
   .:JG - 132
   Ft.e Ala Leu Leu Lys Ala Leu Lys Lys Ala Leu
        5 10
   - 210 - 133
   - 311> 4
   .212> PFT
   HOU03:711794.2
```

```
<2135 SYNTHETIC
4000 B
KULT - MOD_RES
.233 . 74)
MOITAGINA . 1955.
g44d5 + 193
Lys Try Lys Lys
. 216 - 134
 <2115 5
 <2125 PRT
 C2135 SYNTHETIC
 .230>
 LICIN MOD_RES
 <200> (5)
 < :::3 > AMIDATION
 <400> 134
  Lys Trp Lys Lys Leu
  <210> 135
  k211> 9
  - 212: PRT
  <213> SYNTHETIC
  .2105
  <:21 \ MOD_RES</pre>
  (222 + (9)
(223 + AMIDATION
  <400> 135
   Lys Phe Lys Lys Leu Ala Lys Lys Phe
   <210> 136
   . 2115 9
   4,2125 PRT
   . 3135 SYNTHETIC
   ×222 × (9)
    ...23 - AMIDATION
    .400 - 136
    Lys Phe Lys Lys Leu Ala Lys Lys Trp
    1 5
```

```
.:10% 137
...11 · 11
. 111 · PPT
. 113 · SYNTHETIC
<.220 h
. 131 MOD_PES
+2.22 + (11)
. DIB. AMIDATION
.466 · 137
Fire Ala Leu Ala Leu Lys Ala Leu Lys Lys Ala
 .210> 138
 .211> 12
 + 010> FRT
 4.113> SYNTHETIC
 <220>
 42222 \times (12\overline{)}
 <223> AMIDATION
  ₹4005-138
  Fhe Ala Leu Leu Lys Ala Leu Leu Lys Lys Ala Leu
             5
  <210> 139
  ...11> 11
  - 212> PHT
  <213> SYNTHETIC
  4.220>
  .331> MOD_RES
  <222> (11)
   <2223> AMIDATION
   <4005 139
   Fr.e Ala Leu Ala Leu Lys Leu Ala Lys Lys Leu
          5
    1
   k210 · 140
   - 2115 11
   .212 · PFT
   - 213 - SYNTHETIC
   2220
    .221 MOD_RES
    .332: (11)
    . DDF - AMIDATION
    .400° 140
    Leu Lys Lys Leu Ala Lys Leu Ala Leu Ala Phe
    HOU03:711794.2
                                     102 of 110
```

<213> SYNTHETIC

RODEN MOD_RES RODEN (10) RODEN AMIDATION

<400> 142 Phe Ala Leu Ala Leu Lys Leu Lys Lys Leu 1 5

<310 > 143
<111 > 10
<310 > PPT
<313 > SYNTHETIC
<320 >

#221> MOD_RES #222> (19) #223> AMIDATION

+400 > 143 Fig. Ala Leu Lys Ala Lys Lys Leu 10 $^{-1}$

0.110 + 144 +0.110 + 4 +0.112 * FRT +0.130 * SYNTHETIC +0.00 + KULIN MOD_RES

```
<400 144
Fre Ala Leu Ala
. 21. - 145
. 111 - 5
.111. FFT
.113 · SYNTHETIC
4.220.5
.011> MOD_RES
.2225 (5)
.222> AMIDATION
 .400 · 145
 Trp Ala Leu Ala Leu
 <210 > 146
 <211> 23
 .211> PET
 <213 > SYNTHETIC
 A12205
 <221 > MOD_RES
 4222> (23)
  <203> AMIDATION
  Gly Ile Gly Lys Phe Leu His Ala Ala Lys Lys Phe Ala Lys Ala Phe
  Val Ala Glu Ile Met Asn Ser
               20
   <210> 147
   k211> 23
   <2125 PFT
   <213: SYNTHETIC
   <22008
   <!!! MOD_RES</pre>
   . 212 - (23)
   .213 AMIDATION
    Fine Ala Lys Lys Phe Ala Lys Lys Phe Lys Lys Phe Ala Lys Lys Phe
    Ala Lys Phe Ala Phe Ala Phe
```

```
₹2110 148
...11: 10
. http://pmm
. 113 - SYNTHETIC
\sum_{i=1}^{n} C_{i} .
- .:21 - MOD_RES
. ...2 - (10)
. 1135 · AMIDATION
.400> 148
 Mys Lys Val Val Phe Lys Val Lys Phe Lys
 5
 R210> 149
 <311> 10
 kiliz FRT
 <213 · SYNTHETIC
 <2200a
 <2215 MOD_RES</pre>
 <2000> (10)
 <223> AMIDATION
 <400> 149
 Phe Lys Val Lys Phe Lys Val Lys Val Lys
 -.210> 150
  <211> 38
  <212> PRT
  <.313> SYNTHETIC
 -220>
  <121> MOD_RES
  k222> (38)
  .223> AMIDATION
  Leu Pro Lys Trp Lys Val Phe Lys Lys Ile Glu Lys Val Gly Arg Asn
  .400> 150
   Ile Arg Asn Gly Ile Val Lys Ala Gly Pro Ala Ile Ala Val Leu Gly
                 20
   Glu Ala Lys Ala Leu Gly
           35
   .110: 151
   VI112 23
   -312 > PRT
   <313. SYNTHETIC</pre>
   < [ ] ) >
   HOU03:711794.2
```

```
RES MODERES
<!!!! (23)</pre>
AMILATION
Fre Ala Lys Lys Leu Ala Lys Lys Leu Lys Lys Leu Ala Lys Lys Leu
<400 \cdot 151
              5 10 15
Ala Lys Leu Ala Lys Lys Leu
       20
<210> 152
<211 × 15
<!!!! > PRT
.213> SYNTHETIC
4.220%
.331: MOD_RES
R222> (15)
KODITACINA KECCE
 <4005 152
 Vai Ala Lys Ala Leu Lys Ala Leu Lys Ala Leu Lys Ala Leu
                         10
 · 5
 <310× 153
 <3115 13
 <212 PRT
 V213 - SYNTHETIC
 <220°S
 <:221 > MOD_RES
 <2227 (13)
 2223 AMIDATION
 <400> 153
 Val Ala Lys Phe Leu Ala Lys Phe Leu Lys Lys Ala Leu
  1 5
  <210> 154
  <.311> 23
  4.312> PRT
  <213> SYNTHETIC
  - 2200
  .221% MOD_RES
  23)
  - 113 - AMIDATION
  <400 ← 154
  Val Ala Lys Lys Phe Ala Lys Lys Phe Lys Lys Phe Ala Lys Lys Phe
                    10
  Ala Lys Phe Ala Phe Ala Phe
  HOU03:711794.2
```

```
<2105 155
2311 · 13
ABIL - PRT
H213 - SYNTHETIC
.:.223
4021 - MOD_RES
4021 - (19)
<213 · AMILATION
Val Ala Lys Lys Leu Ala Lys Leu Ala Lys Leu Ala Lys Leu Ala
<400 · 155
        5 10
 Leu Ala Leu
 <210> 156
 <211> 15
 4212> PRT
 <213> SYNTHETIC
 kJ200
 KIBIN MOD_RES
 <1222 (15)
 <1235 AMIDATION
 Val Ala Lys Lys Leu Ala Lys Leu Ala Lys Leu Leu Ala Leu
 <400> 156
  i 5
  <210> 157
  <211> 13
  <2115 PF.T
  <215> SYNTHETIC
  <220>
  CODIN MOD RES
  Jacob (13)
  + 223 - AMIDATION
  .4008 157
  Wal Ala Lys Leu Leu Ala Lys Ala Leu Lys Lys Leu Leu
   1 5
   <210 · 158
   P211 - 13
   <212 - PRT</pre>
   <213 - SYNTHETIC
```

. 2200

```
<...1. MOE RES
<..12 - 123)
AMIDATION
<4.0 - 158
Val Ala Leu Ala Leu Lys Ala Leu Lys Lys Ala Leu Lys Lys Leu Lys
 5 10 15
Lys Ala Leu Lys Lys Ala Leu
          20
₹310≥ 159
<111 ≥ 23
4.212> PFT
<.113> SYNTHETIC
<400> 159
Val Ala Leu Ala Leu Lys Ala Leu Lys Lys Ala Leu Lys Lys Leu Lys
 1 5 10
 Lys Ala Leu Lys Lys Ala Leu
          20
 <210> 160
 <211> 23
 <212> PPT
 <213> SYNTHETIC
 <2200 →
 <:21> MOD_RES
 <222> (23)
 <223> AMIDATION
 <400> 160
 Val Ala Leu Ala Leu Lys Ala Leu Lys Lys Leu Ala Lys Lys Leu Lys
               5
 Lys Leu Ala Lys Lys Ala Leu
 <215> 161
 +211> 23
 +312> PFT
 .213> SYNTHETIC
 - 0268
 -221 - MOD RES
 +282→ (23)
 . 213> AMIDATION
 - 400 > 161
  Val Ala Leu Ala Leu Lys Ala Leu Lys Lys Leu Leu Lys Lys Leu Lys
                          10
```

```
Lys Leu Ala Lys Lys Ala Leu
            2.0
·. 10: 16.3
+ 1110 - 33
-212 - PET
- 313 - SYNTHETIC
. 400 - 163
The Ala Lys Lys Leu Ala Lys Lys Leu Lys Lys Leu Ala Lys Lys Leu
                  5
Ala Lys Leu Ala Leu Ala Leu
            20
.210 > 163
<211 · 30
<213 - PFT
.113 · SYNTHETIC
<4005 163
 Pre Ala Lys Lys Leu Ala Lys Lys Leu Lys Lys Leu Ala Lys Lys Leu
                                       10
                  5
 1
 Ala Lys Leu Ala Leu Ala Leu Lys Ala Leu Ala Leu Lys Ala
                               25
              20
 92105 164
 <311> 18
 +1110> PRT
 <213> SYNTHETIC
 <2200>
 <221> MOD RES
 4.221> (19)
 <223> AMIDATION
 ₹400> 164
  The Ala Lys Lys Leu Ala Lys Lys Leu Lys Lys Leu Ala Lys Lys Leu
                            10
                  5
  1
  Ala Lys
  - 210 - 165
  . . 11 - 13
  .312 · PHT
  . [13 · SYNTHETIC
  (-1.174) \rightarrow
  . 221> MOD_RES
  4222> (13)
  <::::3> AMIDATION
  HOU03:711794.2
```

